

Name	Type-model	Slot x bay	Proc-essor(s)	GHz	Cores	Memory DIMMs	Disk(s)	Disk size	Disk bays	Disk Controller	Disk type	RAID Int	System mgmt	Ethernet	Avail date
TD230	1040-14U	5x7	1xE5603	1.60	4	1x2GB	None	3.5"	5xDirect Cable	ICH10R	SATA	0/1/10	IPMI	2xGb	Mar 11
TD230	1040-15U	5x6	1xE5603	1.60	4	1x2GB	None	3.5"	4xHot-swap	ICH10R	SATA	0/1/10	IPMI	2xGb	Mar 11
TD230	1040-16U	5x6	1xE5603	1.60	4	1x2GB	None	3.5"	4xHot-swap	9240-8i(v2)	SATA/SAS	0/1/10	IPMI	2xGb	Mar 11

- **These models have a 3-year limited warranty¹**
- **Flexible and green tower computing at value price point**

Processor(s)	Up to two processors, one processor standard, Intel® Xeon® Processor E5603 with quad-core , 4.8GT/s (giga-transfers/second) QPI (QuickPath Interconnect), Intel 64, Virtualization Technology, 1066MHz DDR3 memory controller, and 4MB cache		Front - (Hot-swap) optical optical disk disk disk disk • Tower mechanical • Business black color; metal case • 8.3"W x 20.1"D x 18.5"H • 210mm W x 510mm D x 470mm H • 57.6 lb (26.2kg) max configuration • Toolless side cover removal • Toolless optical drive removal Hot-swap model(s): <table><tr><td>Bay 1</td><td>5.25", 1.6" high,</td><td>external,</td><td>std optical</td></tr><tr><td>Bay 2</td><td>5.25", 1.6" high,</td><td>external,</td><td>optional optical</td></tr><tr><td>Bay 3</td><td>3.5", 1" high,</td><td>external,</td><td>optional disk</td></tr><tr><td>Bay 4</td><td>3.5", 1" high,</td><td>external,</td><td>optional disk</td></tr><tr><td>Bay 5</td><td>3.5", 1" high,</td><td>external,</td><td>optional disk</td></tr><tr><td>Bay 6</td><td>3.5", 1" high,</td><td>external,</td><td>optional disk</td></tr></table> Direct cable model(s): <table><tr><td>Bay 1</td><td>5.25", 1.6" high,</td><td>external,</td><td>std optical</td></tr><tr><td>Bay 2</td><td>5.25", 1.6" high,</td><td>external,</td><td>optional optical</td></tr><tr><td>Bay 3</td><td>3.5", 1" high,</td><td>external,</td><td>optional disk</td></tr><tr><td>Bay 4</td><td>3.5", 1" high,</td><td>external,</td><td>optional disk</td></tr><tr><td>Bay 5</td><td>3.5", 1" high,</td><td>external,</td><td>optional disk</td></tr><tr><td>Bay 6</td><td>3.5", 1" high,</td><td>external,</td><td>optional disk</td></tr><tr><td>Bay 7</td><td>3.5", 1" high,</td><td>external,</td><td>optional disk</td></tr></table> Slot 1: half-length, full-height, PCI Express 2.0 x8 Slot 2: half-length, full-height, PCI Express 2.0 x8 Slot 3: half-length, full-height, PCI Express 2.0 x8*** Slot 4: half-length, full-height, 32-bit PCI 2.3 Slot 5: half-length, full-height, PCI Express x4 *** x4 electrical	Bay 1	5.25", 1.6" high,	external,	std optical	Bay 2	5.25", 1.6" high,	external,	optional optical	Bay 3	3.5", 1" high,	external,	optional disk	Bay 4	3.5", 1" high,	external,	optional disk	Bay 5	3.5", 1" high,	external,	optional disk	Bay 6	3.5", 1" high,	external,	optional disk	Bay 1	5.25", 1.6" high,	external,	std optical	Bay 2	5.25", 1.6" high,	external,	optional optical	Bay 3	3.5", 1" high,	external,	optional disk	Bay 4	3.5", 1" high,	external,	optional disk	Bay 5	3.5", 1" high,	external,	optional disk	Bay 6	3.5", 1" high,	external,	optional disk	Bay 7	3.5", 1" high,	external,	optional disk	Rear PSU 1 - PCIe x8 2 - PCIe x8 3 - PCIe x8 4 - PCI 5 - PCIe x4 • Setup Utility: F2 at startup • Network Boot: F12 at startup • ICH10R RAID: Ctrl+E at startup • LSI 9420-8i RAID: Ctrl+H at startup Software Management Tools • ThinkServer EasyStartup Security • Administrator password • User password • Front panel lock out • Boot sequence control • Boot without keyboard, mouse, diskette • Serial port I/O control • USB port disablement (all) RoHS-compliant
Bay 1	5.25", 1.6" high,	external,		std optical																																																				
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Implementation	Two LGA1366 sockets																																																							
Memory	2GB std, 32GB max (16GB per processor), RDIMM, PC3-10600 1333MHz DDR3*, ECC, Memory Mirroring , eight 240-pin DIMM sockets**, * System automatically clocks down for processors with 1066MHz DDR3 memory controller ** Over four DIMMs requires dual processors																																																							
Graphics	Onboard ServerEngines™ Pilot II graphics/management controller, one VGA DB-15 on rear, 32MB; Maximum resolution: 1600x1200@52Hz																																																							
Disk bays	Some: Five 3.5" SATA disk bays, no hot-swap, direct cable (DC) Some: Four 3.5" hot-swap (HS) SATA disk bays																																																							
Disk controller	Some: Serial ATA, SATA 3.0Gb/s, integrated in ICH10R, RAID [®] 0, 1, 10 support Some: ThinkServer SAS 9240-8i v2, PCI Express [®] bus, SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 10 support DC Model(s): Six SATA connectors for opticals and disks																																																							
Optical	DVD-ROM DL SATA 1.5Gb/s 16X-48X Max ⁴ Drive																																																							
Diskette	None (use USB port)																																																							
Ethernet	Two Gigabit Ethernet ports, Intel 82574L and 82567																																																							
Chipset	Intel 5500 Chipset , Intel I/O Hub (IOH) for PCI Express slots 1-3 (see right) and links to 82574L, enterprise south bridge interface (ESI) to Intel I/O Controller Hub 10 RAID (ICH10R) for USB, slots 4-5, onboard SATA controller, and links to 82567																																																							
Extender card	None																																																							
Front ports	Two USB 2.0																																																							
Rear ports	Four USB 2.0, external monitor (VGA DB-15), serial (9-pin), two ethernet (RJ-45)																																																							
Internal ports	One USB 2.0 connector for optional tape drive																																																							
Diagnostics	System status LEDs on front, Diagnostic LEDs on rear																																																							
Systems mgmt	Onboard ServerEngines Pilot II graphics/management controller, IPMI 2.0-compliant baseboard management controller (BMC)																																																							
Prerequisites	Monitor, disk, OS																																																							
Keyboard	None (use USB port)																																																							
Mouse	None (use USB port)																																																							
Power supply(s)	One fixed 625 watts standard, universal, 80 PLUS [®] Bronze qualified																																																							
Cooling	Five fans std (power supply, two front, one rear, first processor), one optional processor fan for second processor																																																							
Accessories 2GB PC3-10600 DDR3 1333 MHz RDIMM 67Y1432 ThinkServer TD230 SATA RAID 5 Upgrade 67Y1459 250GB 3.5" SATA (7200 rpm) 67Y1400 More accessories on O-ARTsheet Other accessories at lenovo.com/accessories Max memory capacity 32GB with eight 4GB PC3-10600 DDR3 RDIMMs Max internal capacity 3.5" SATA HS: 8.0TB with four 2TB 3.5" SATA disks 3.5" SATA DC: 10.0TB with five 2TB 3.5" SATA disks Limited Warranty¹ ↪ 3-year parts and labor ↪ Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays) ↪ ThinkPlus™ services available; see lenovo.com/thinkplus/warranty • Onsite service upgrade options (in eligible locations)⁷ • Post warranty maintenance services ↪ 24 hour x 7 day¹⁴ toll-free support during the warranty period¹ via 800-426-7378																																																								

See footnotes for important warranty information

US model announced March 15, 2011; previous models on March 1, 2011